

## M 5.5, 10 km W of Puerto Armuelles, Panama

Origin Time: 2021-01-29 13:14:44 UTC (Fri 08:14:44 local)

Location: 8.2765° N 82.9539° W Depth: 10.0 km

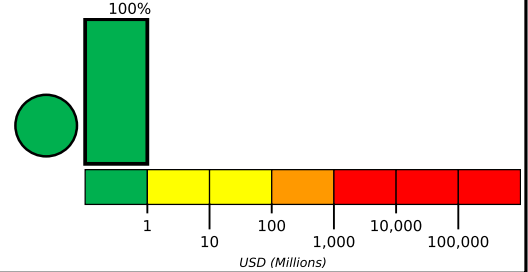
Created: 1 day, 0 hours after earthquake

### Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

### Estimated Economic Losses

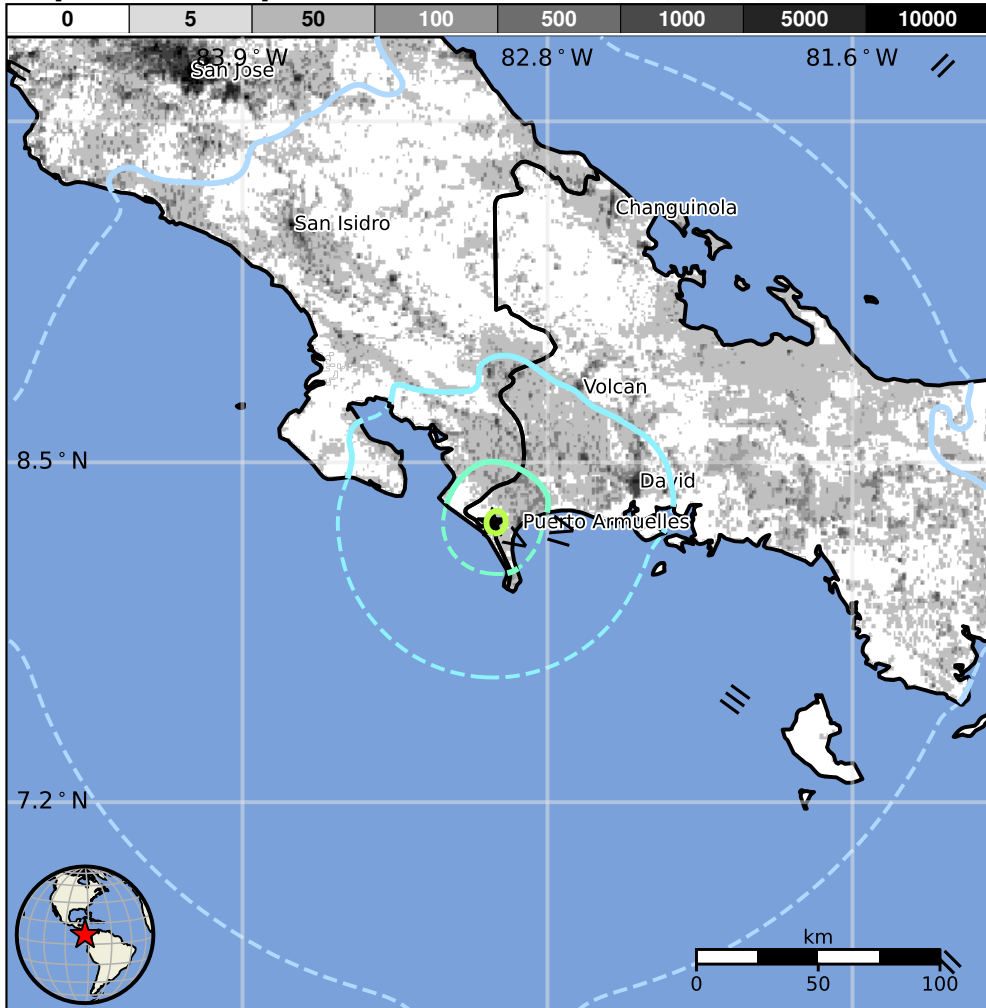


## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	4,044k	442k	67k	2k	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

## Population Exposure



## Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are mud wall and informal (metal, timber, GI etc.) construction.

## Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1993-07-10	186	5.8	VII(45k)	1
1990-12-22	235	5.9	VIII(188k)	1
1991-04-22	155	7.6	VII(213k)	75

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

## Selected City Exposure

from GeoNames.org

MMI	City	Population
V	Finca Corredor	1k
V	<b>Puerto Armuelles</b>	<b>19k</b>
V	Finca Blanco	2k
V	La Esperanza	2k
V	Progreso	2k
V	Limones	<1k
IV	<b>David</b>	<b>83k</b>
III	Limon	63k
II	Cartago	27k
II	<b>San Jose</b>	<b>335k</b>
II	Alajuela	47k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us6000dcx7#pager>

bold cities appear on map.

(k = x1000)

Event ID: us6000dcx7